

FILE 'REGISTRY' ENTERED AT 13:58:40 ON 24 NOV 2010
EXP 1-KESTOSE/CN

L1 1 S E3
EXP NYSTOSE/CN
L2 2 S E3-E4
EXP FRUCTOFURANOSYLNYSTOSE/CN
L3 1 S E1

FILE 'HCAPLUS' ENTERED AT 13:59:49 ON 24 NOV 2010

L4 137 S L1 AND L2 AND L3
L5 223462 S CAT OR DOG OR PET OR (COMPANION ANIMAL)
L6 3 S L4 AND L5
L7 1007012 S CALCIUM
L8 13 S L4 AND L7
L9 6 S L8 AND (PY<2004 OR AY<2004 OR PRY<2004)

FILE 'HOME' ENTERED AT 13:58:26 ON 24 NOV 2010

FILE 'REGISTRY' ENTERED AT 13:58:40 ON 24 NOV 2010
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8
DICTIONARY FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=> exp 1-kestose/cn
E1      1      1-KESTOHEPTAOSE/CN
E2      1      1-KESTOPENTAOSE/CN
E3      1 --> 1-KESTOSE/CN
E4      1      1-KESTOSE-SUCROSE FRUCTOSYLTRANSFERASE/CN
E5      1      1-KESTOTRIOSE/CN
E6      1      1-KETO PREVITAMIN D3/CN
E7      1      1-KETO-A-CYPERONE/CN
E8      1      1-KETO-1,2-DIHYDROISOQUINOLINE PHENYLHYDRAZONE/CN
E9      1      1-KETO-2,3-EPOXYCHLORDENE/CN
E10     1      1-KETO-25-HYDROXYPREVITAMIN D3/CN
E11     1      1-KETO-3-(3'-SULFAMYL-4'-CHLOROPHENYL)-3-HYDROXYISOINDOLINE/
CN
E12     1      1-KETO-3-METHYL-3-CARBOMETHOXYSUCCINIC ACID/CN
```

=> s e3
1.1 1,1-KESTOSE/CN

```
=> exp nystose/cn
E1           1      NYSTEX/CN
E2           1      NYSTOP/CN
E3           1 --> NYSTOSE/CN
E4           1      NYSTOSE TRIHYDRATE/CN
E5           1      NYSTRANOL/CN
E6           1      NYSYN 25-8/CN
E7           1      NYSYN 30-5/CN
E8           1      NYSYN 33-3/CN
E9           1      NYSYN 33-5/CN
E10          1      NYSYN 33-5HM/CN
```

E11 1 NYSYN 35-5/CN
E12 1 NYSYN 35-8/CN

=> s e3-e4

L2 2 (NYSTOSE/CN OR "NYSTOSE TRIHYDRATE"/CN)

=> exp fructofuranosylnystose/cn

E1 1 FRUCTOFURANOSYL NYSTOSE/CN
E2 1 FRUCTOFURANOSYLMINE, N-BENZYL-1-DEOXY-1-P-TOLUIDINO-, D-/CN
E3 0 --> FRUCTOFURANOSYLNYSTOSE/CN
E4 1 FRUCTOHEPTONIC ACID, MONOSODIUM SALT/CN
E5 1 FRUCTOKINASE/CN
E6 1 FRUCTOKINASE (AEROMONAS HYDROPHILA HYDROPHILA STRAIN ATCC 79 66)/CN
E7 2 FRUCTOKINASE (AGROBACTERIUM TUMEFACIENS STRAIN C58 GENE SCRK)/CN
E8 1 FRUCTOKINASE (ARABIDOPSIS THALIANA CLONE F23O10 GENE F23O10. 21)/CN
E9 1 FRUCTOKINASE (ARABIDOPSIS THALIANA CLONE RAFL05-07-J12 (R099 47) GENE AT1G66430)/CN
E10 1 FRUCTOKINASE (ARABIDOPSIS THALIANA CLONE RAFL06-86-G11 (R180 33) GENE AT2G31390)/CN
E11 1 FRUCTOKINASE (ARABIDOPSIS THALIANA CLONE T27F4 GENE T27F4.17)/CN
E12 1 FRUCTOKINASE (ARABIDOPSIS THALIANA GENE AT2G31390)/CN

=> s e1

L3 1 "FRUCTOFURANOSYL NYSTOSE"/CN

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.98	23.20

FILE 'HCAPLUS' ENTERED AT 13:59:49 ON 24 NOV 2010
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FILE COVERS 1907 - 24 Nov 2010 VOL 153 ISS 22
FILE LAST UPDATED: 23 Nov 2010 (20101123/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11 and 12 and 13

558 L1

460 L2

199 L3

L4 137 L1 AND L2 AND L3

=> s cat or dog or pet or (companion animal)

60015 CAT

76317 DOG

94123 PET

12969 COMPANION

1727199 ANIMAL

200 COMPANION ANIMAL

(COMPANION(W)ANIMAL)

L5 223462 CAT OR DOG OR PET OR (COMPANION ANIMAL)

=> s 14 and 15

L6 3 L4 AND L5

=> d 16 1-3 ti abs bib

L6 ANSWER 1 OF 3 HCPLUS COPYRIGHT 2010 ACS on STN

TI Compositions comprising fermentable fiber which are adapted for use by a companion animal and kits and methods of their use

AB The present disclosure is directed to compns., kits, and methods which are adapted for use (especially oral use) by companion animals, for enhancement of gastrointestinal health. In one embodiment, compns. are provided which comprise a fermentable fiber, wherein the composition is a liquid

AN 2005:474928 HCPLUS <>LOGINID::20101124>>

DN 143:25818

TI Compositions comprising fermentable fiber which are adapted for use by a companion animal and kits and methods of their use

IN Norton, Sharon Ann; Goldy, Gary Gregory

PA The Iams Company, USA

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050119222	A1	20050602	US 2003-725248	20031201
	AU 2004295003	A1	20050616	AU 2004-295003	20041201
	AU 2004295003	B2	20081204		
	CA 2547330	A1	20050616	CA 2004-2547330	20041201
	WO 2005053425	A1	20050616	WO 2004-US40084	20041201
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				

	RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1689247	A1	20060816	EP 2004-812571	20041201
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
BR 2004017166	A	20070306	BR 2004-17166	20041201
JP 2007512024	T	20070517	JP 2006-541496	20041201
PRAI US 2003-725248	A	20031201		
WO 2004-US40084	W	20041201		

L6 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Companion animal compositions comprising short-chain oligofructose
 AB Pet feed compns. comprise about 0.01-0.2% short-chain oligofructose (by weight of the composition) comprising 1-kestose, nystose, and 1F- β -fructofuranosylnystose. The compns. are used to enhance the gastrointestinal health of the animal and may improve fecal odor.
 AN 2005:471849 HCAPLUS <<LOGINID::20101124>>
 DN 143:6762
 TI Companion animal compositions comprising short-chain oligofructose
 IN Vickers, Robert Jason; Boileau, Thomas William-Maxwell; Sunvold, Gregory Dean
 PA The Iams Company, USA
 SO U.S. Pat. Appl. Publ., 7 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050118299	A1	20050602	US 2003-725251	20031201
	AU 2004295004	A1	20050616	AU 2004-295004	20041201
	AU 2004295004	B2	20081009		
	CA 2547332	A1	20050616	CA 2004-2547332	20041201
	WO 2005053427	A1	20050616	WO 2004-US40085	20041201
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1689248	A1	20060816	EP 2004-812572	20041201
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	BR 2004017167	A	20070306	BR 2004-17167	20041201
	JP 2007512840	T	20070524	JP 2006-542681	20041201
PRAI US 2003-725251	A	20031201			
WO 2004-US40085	W	20041201			

L6 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Methods and kits related to administration of a fructooligosaccharide
 AB A first embodiment disclosed herein is a method of enhancing total tract digestibility of one or more dietary components in a companion animal, the method comprising administering to the companion animal a companion animal

composition comprising fructooligosaccharide. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for enhancing total tract digestibility of one or more dietary components in the companion animal, are also disclosed. In a related, but sep., embodiment, a method selected from enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, the method comprising administering to a companion animal a companion animal composition comprising fructooligosaccharide, is disclosed. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for a purpose selected from the group consisting of enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, are also disclosed.

AN 2005:471837 HCPLUS <<LOGINID::20101124>>
 DN 143:13251
 TI Methods and kits related to administration of a fructooligosaccharide
 IN Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert Jason

PA The Iams Company, USA
 SO U.S. Pat. Appl. Publ., 8 pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050118234	A1	20050602	US 2003-724839	20031201
	AU 2004295005	A1	20050616	AU 2004-295005	20041201
	CA 2547059	A1	20050616	CA 2004-2547059	20041201
	WO 2005053426	A1	20050616	WO 2004-US40086	20041201
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1696734	A1	20060906	EP 2004-812573	20041201
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	BR 2004017187	A	20070306	BR 2004-17187	20041201
	JP 2007512032	T	20070517	JP 2006-542682	20041201
	AU 2008229785	A1	20081030	AU 2008-229785	20081003
PRAI	US 2003-724839	A	20031201		
	AU 2004-295005	A3	20041201		
	WO 2004-US40086	W	20041201		

=> s calcium
 L7 1007012 CALCIUM

=> s 14 adn 17
 MISSING OPERATOR L4 ADN

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s 14 and 17
L8 13 L4 AND L7

=> s 18 and (PY<2004 or AY<2004 or PRY<2004)
24051979 PY<2004
4837593 AY<2004
4311905 PRY<2004
L9 6 L8 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> d 19 1-6 ti abs bib

L9 ANSWER 1 OF 6 HCPLUS COPYRIGHT 2010 ACS on STN
TI Matrix-forming composition containing pectin
AB A liquid edible composition with a pH >6, a viscosity <600 mPa s at a shear rate of 100 s⁻¹ and 20°, and a viscosity ≥125% of the viscosity at pH <5 and 37° comprises ≥0.05 weight% pectin (degree of methoxylation 2-50) and/or alginate; ≥5 mg calcium per 100 mL; and ≥0.1 weight% indigestible oligosaccharide (degree of polymerization 2-60). Oral administration of the product may be used to treat

or prevent obesity in mammals. Thus, a viscous dietetic food composition (100 mL, pH 7) may include 0.55 g low-methoxyl pectin, 154 mg calcium carbonate, 0.4 g tripotassium citrate, and 1 g Fibersol 2.

AN 2008:1088763 HCPLUS <>

DN 149:331171

TI Matrix-forming composition containing pectin

IN Navarro Y Koren, Peter Antonio; Van Laere, Katrien Maria Jozefa; De Lange, Maria Elisabeth Hermien; Minor, Marcel

PA N.V. Nutricia, Neth.

SO U.S., 12pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 7422764	B2	20080909	US 2004-871107	20040621 <--
	US 20040258826	A1	20041223		
	US 20030118712	A1	20030626	US 2001-22372	20011220 <--
	US 6884445	B2	20050426		
	EP 1410722	A1	20040421	EP 2002-79289	20021016 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 20030134027	A1	20030717	US 2002-279968	20021025 <--
	US 6989166	B2	20060124		
	WO 2003053165	A1	20030703	WO 2002-NL856	20021220 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-22372	A	20011220	<--	

EP 2002-77222	A	20020607	<--
EP 2002-79289	A	20021016	<--
US 2002-279968	A	20021025	<--
WO 2002-NL856	A2	20021220	<--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Methods and kits related to administration of a fructooligosaccharide
 AB A first embodiment disclosed herein is a method of enhancing total tract digestibility of one or more dietary components in a companion animal, the method comprising administering to the companion animal a companion animal composition comprising fructooligosaccharide. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for enhancing total tract digestibility of one or more dietary components in the companion animal, are also disclosed.
 In a related, but sep., embodiment, a method selected from enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, the method comprising administering to a companion animal a companion animal composition comprising fructooligosaccharide, is disclosed. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for a purpose selected from the group consisting of enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, are also disclosed.

AN 2005:471837 HCAPLUS <>LOGINID::20101124>>

DN 143:13251

TI Methods and kits related to administration of a fructooligosaccharide
 IN Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert Jason

PA The Iams Company, USA

SO U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050118234	A1	20050602	US 2003-724839	20031201 <--
	AU 2004295005	A1	20050616	AU 2004-295005	20041201 <--
	CA 2547059	A1	20050616	CA 2004-2547059	20041201 <--
	WO 2005053426	A1	20050616	WO 2004-US40086	20041201 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1696734	A1	20060906	EP 2004-812573	20041201 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	BR 2004017187	A	20070306	BR 2004-17187	20041201 <--
	JP 2007512032	T	20070517	JP 2006-542682	20041201 <--
	AU 2008229785	A1	20081030	AU 2008-229785	20081003 <--

PRAI US 2003-724839 A 20031201 <--
AU 2004-295005 A3 20041201
WO 2004-US40086 W 20041201

L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Banana puree fermentation by Lactobacillus acidophilus immobilized in Ca-alginate
AB Lactobacillus acidophilus and banana puree as a substrate were combined in a direct fermentation applying the bacteria as Ca alginate-entrapped cells. Cell growth, course of reducing sugars and pH, and utilization of fructooligosaccharides were compared with free cell fermentation Fermentation with immobilized microorganisms was more efficient. The contents of L. acidophilus and fructooligosaccharides in the final product were higher than those of free cell fermented banana medium.
AN 2004:205343 HCAPLUS <>LOGINID::20101124>>
DN 140:356098
TI Banana puree fermentation by Lactobacillus acidophilus immobilized in Ca-alginate
AU Tsen, Jen-Horng; Lin, Yeu-Pyng; King, V. An-Erl
CS Department of Nutrition, China Medical University, Taichung, 404, Taiwan
SO Journal of General and Applied Microbiology (2003), 49(6), 357-361
CODEN: JGAMA9; ISSN: 0022-1260
PB Microbiology Research Foundation
DT Journal
LA English
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Production of high content fructooligosaccharides by complex cell system
AB A complex biocatalyst reactor system with a microfiltration device was employed to produce high content fructooligosaccharides continuously in the present invention. Aspergillus japonicus mycelium producing β -fructofuranosidase and Gluconobacter oxydans cell producing glucose dehydrogenase were mixed with sucrose solution in an aerated stirred tank reactor to produce high content fructooligosaccharides. The pH value was controlled by calcium carbonate or calcium hydroxide. By continuous were discharged continuously from microfiltration device. More than 80% in dry weight basis of high content fructooligosaccharides were produced by the system.

AN 2004:186493 HCAPLUS <>LOGINID::20101124>>
DN 140:252419
TI Production of high content fructooligosaccharides by complex cell system
IN Duan, Guo-Ren; Shiu, Die-Chi; Bi, Jia-Lin
PA National Science Council, Taiwan
SO Taiwan., 6 pp.
CODEN: TWXXA5
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI TW 517088	B	20030111	TW 1997-115844	19971027 <--
PRAI TW 1997-115844		19971027	<--	

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Manufacture of functional polymeric gels useful for immobilized biocatalysts

AB Hydrated polymer gels are frozen in water for water separation, thawed for isolation of the gels, and dried to give functional polymeric gels. An aqueous solution containing Na alginate and fructosyltransferase from

Aureobasidium

pullulans was dropped into an aqueous solution containing CaCl₂ to give hydrated gel,

which was frozen, thawed, and dried to give a functional gel. An aqueous solution containing sucrose was passed through a column containing the gel to give

saccharides containing 50.8 weight% (as solids) fructooligosaccharides including

1-kestose, nystose, and 1-fructosylnystose.

AN 2002:682835 HCAPLUS <>LOGINID::20101124>>

DN 137:215880

TI Manufacture of functional polymeric gels useful for immobilized biocatalysts

IN Ueno, Hideo; Shinohara, Satoru; Fujii, Takeshi

PA Nippon Origo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002253228	A	20020910	JP 2001-60976	20010305 <--
PRAI	JP 2001-60976		20010305	<--	

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Production of fructooligosaccharides in high yield using a mixed enzyme system of β -fructofuranosidase and glucose oxidase

AB A mixed enzyme system, with β -fructofuranosidase (obtained from Aspergillus japonicus) and com. glucose oxidase (Gluzyme, Novo Nordisk), produced fructooligosaccharides (FOS) in high yield from sucrose. The reaction was performed in an aerated stirred tank reactor controlled at pH 5.5 by a slurry of CaCO₃. Glucose, an inhibitor of β -fructofuranosidase, produced in the reaction was converted by glucose oxidase to gluconic acid, which was then precipitated to calcium gluconate in solution. The system produced more than 90% (weight/weight) FOS

on a

dry weight basis, the remainder was glucose, sucrose and a small amount of calcium gluconate. Most of the FOS and sucrose was hydrolyzed to fructose in the mixed enzyme system with glucose oxidase and β -fructofuranosidase from Asp. niger.

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TI Production of fructooligosaccharides in high yield using a mixed enzyme system of β -fructofuranosidase and glucose oxidase

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RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT